**TRANSITION TO COLLEGE**

**MATH**

**SUMMER/FALL 2016**

Location: 191 Social St., 4th Floor, Woonsocket, RI

Class Hours: August: M,W, Th 5:30-8:30pm

September: W, Th 5:30-8:30pm

Instructor: Shelby Ferreira

Instructor’s Email: [shelby.ferreira@gmail.com](mailto:shelby.ferreira@gmail.com)

**COURSE DESCRIPTION**

This course serves two **primary goals**: (1) to support students in improving their basic math skills in order to prepare for college-level academics and (2) to increase student math performance on CCRI’s Accuplacer entrance exam.

**Secondary goals** of the course include: (1) to decrease student fears about math and (2) to explore ways in which math can be utilized as a tool for social change.

**COURSE OBJECTIVES**

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| **Primary:**   * Perform basic operations with whole numbers, integers, irrational numbers, percents, ratios, fractions, decimals and variables * Manipulate, compare, simplify, round, estimate, and equate whole numbers, integers, irrational numbers, percents, ratios, fractions, decimals and variables * Analyze and interpret graphs and number lines * Compute basic geometrical formulas * Compute measures of central tendency * Solve word problems, including those with variables * Translate word problems into equations, including those with variables * Apply the distributive property * Interpret and solve inequalities * Compute rate of travel * Solve algebraic equations and inequalities * Factor expressions with one or two variables * Solve systems of linear equations | **Secondary:**   * Decrease “math anxiety” * Connect math to lived experience * Critically analyze math in society * Identify ways in which math can be a tool for social change * Find your personal best way to solve any problem by employing logic |

**REQUIRED MATERIALS**

1. Text: Arithmetic and Algebra Again, Second Edition, 2005, by Britta Immergut and Jean Burr Smith
2. A three-ring binder with loose-leaf paper for notes, assignments, and handouts
3. Pencils, erasers, and a highlighter
4. Basic Calculator with power and square root functions
5. Seven (7) binder dividers
6. Access to class wikispace <http://ttc2016.wikispaces.com/>

**ATTENDANCE**

Regular attendance is crucial to your success in the program and therefore your successful transition to college. If you must miss a class, please let an instructor at TTC know, and make arrangements to find out what you missed.

**GRADING POLICY**

* Attendance & Participation 25% (Missing a class for any reason will affect your overall grade; participation includes your contribution to the class)
* In-Class Group Assignments 25%
* Homework 25% (Homework will be collected and graded)
* Exit Tickets 25% (In-class, open-book assessments. Successful completion of exit tickets allows students to continue on to next segment of classwork)

**TENTATIVE SCHEDULE** (Subject to change)

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| **WEEK OF** | **TOPICS** |
| August 8 | Syllabus Review, Introduction to Wikispace,  Unit 1: Number Sense & The Arithmetic of Whole Numbers |
| August 15 | Unit 2: Integers |
| August 22 | Unit 3: Decimals & Percentages |
| August 29 | Unit 4: Fractions & Ratios/Proportions |
| September 5 | Unit 5: Measurement, Geometry, Statistics & Probability |
| September 12 | Unit 6: Algebra 1 |
| September 19 | Unit 7: Algebra 2 & Graphing |